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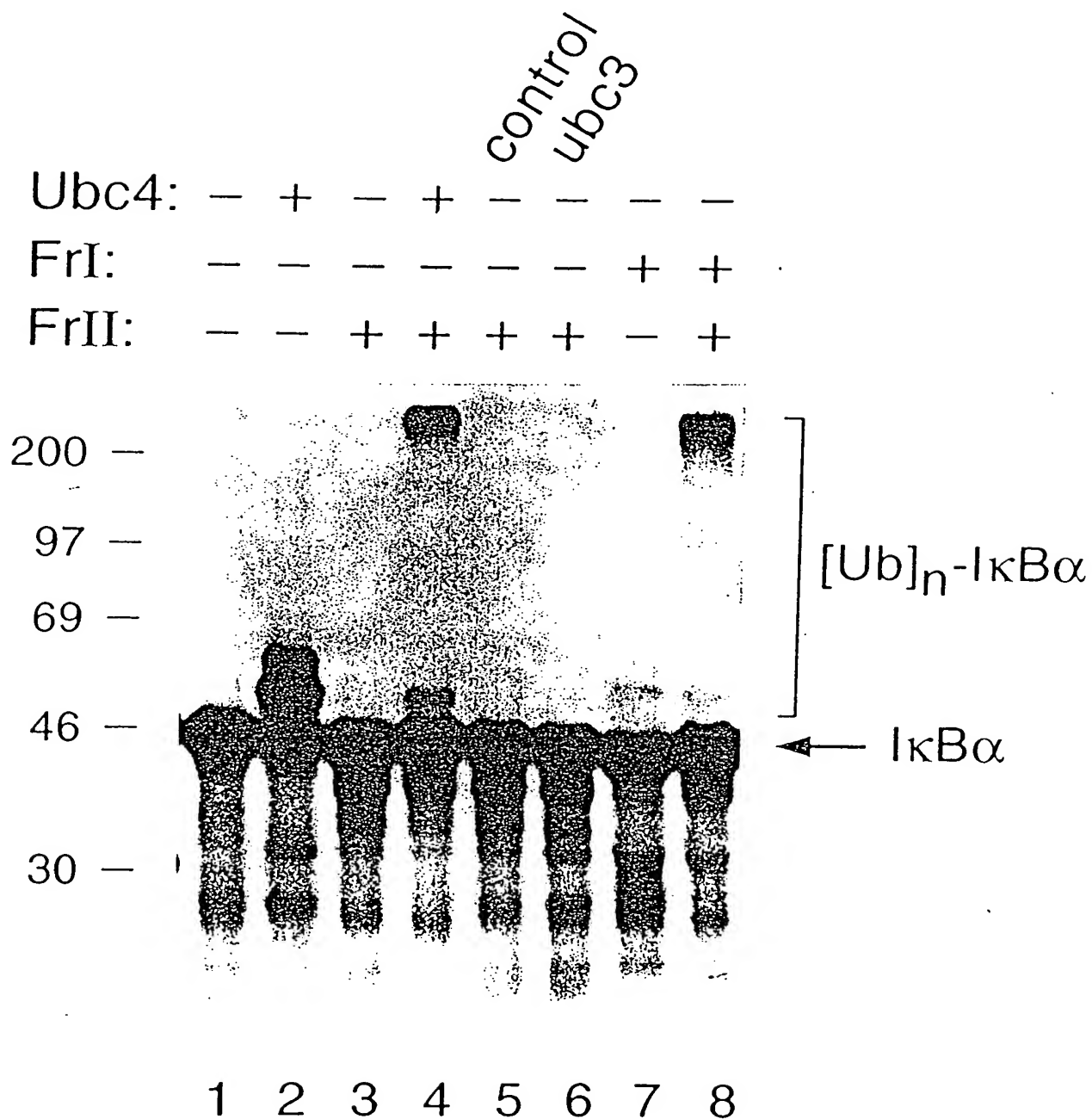


FIG.1

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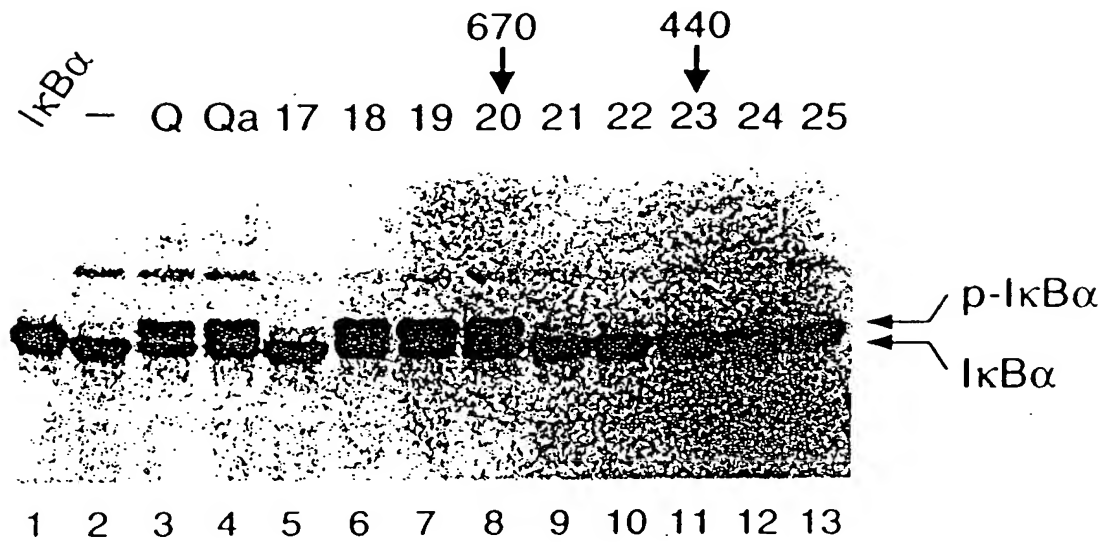


FIG.2A

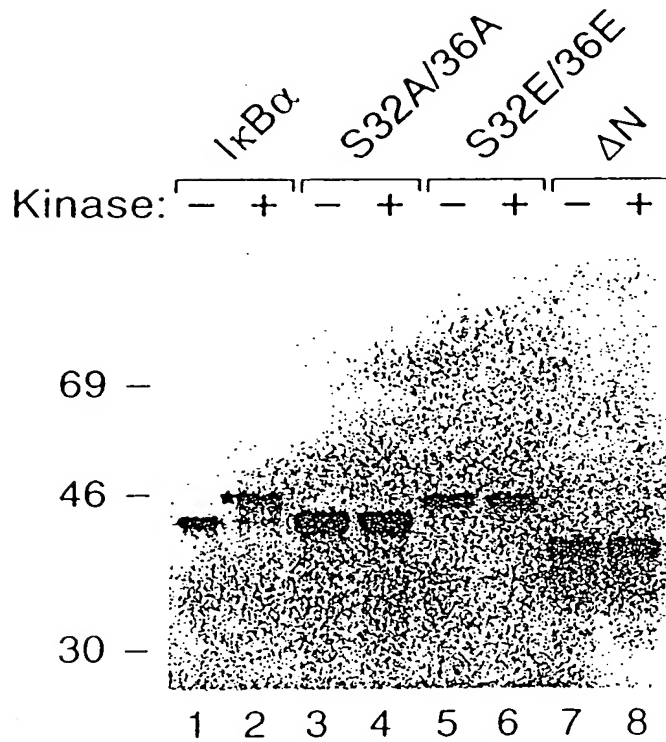


FIG.2C

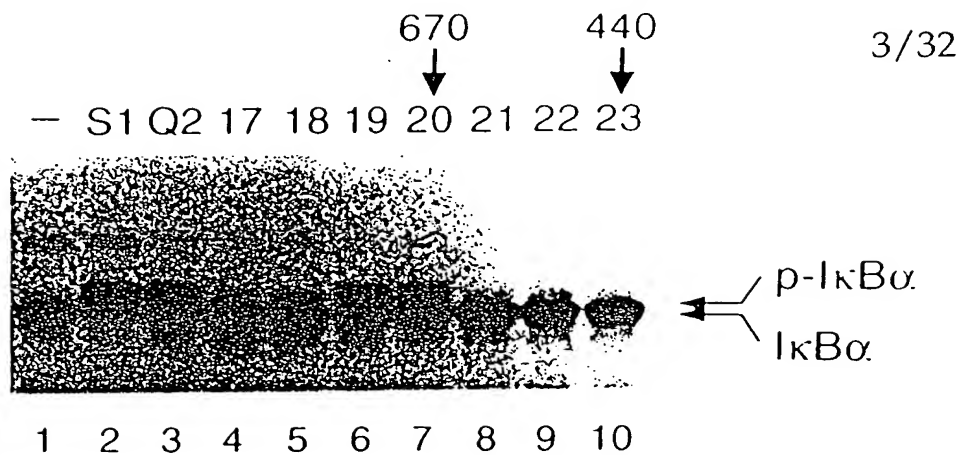


FIG.2B

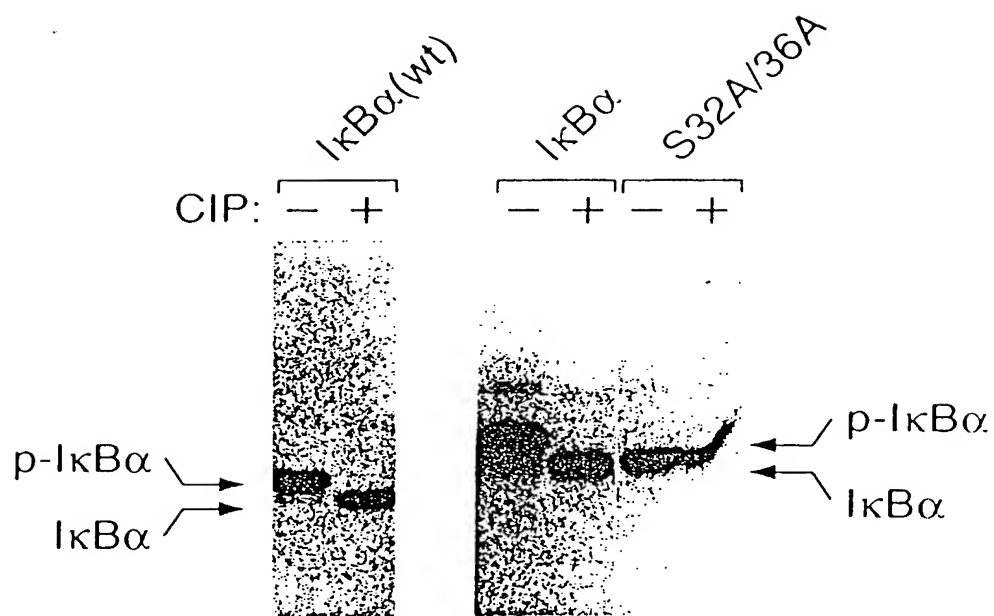


FIG.2D

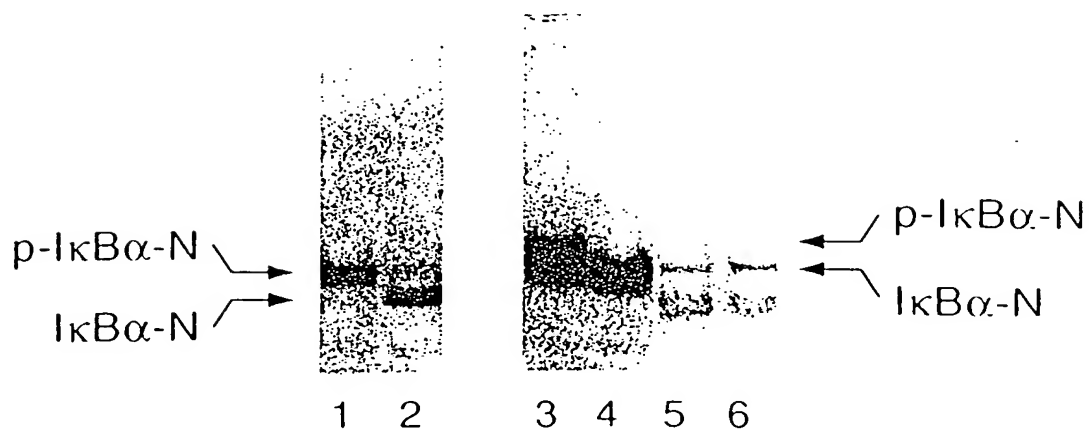


FIG.2E

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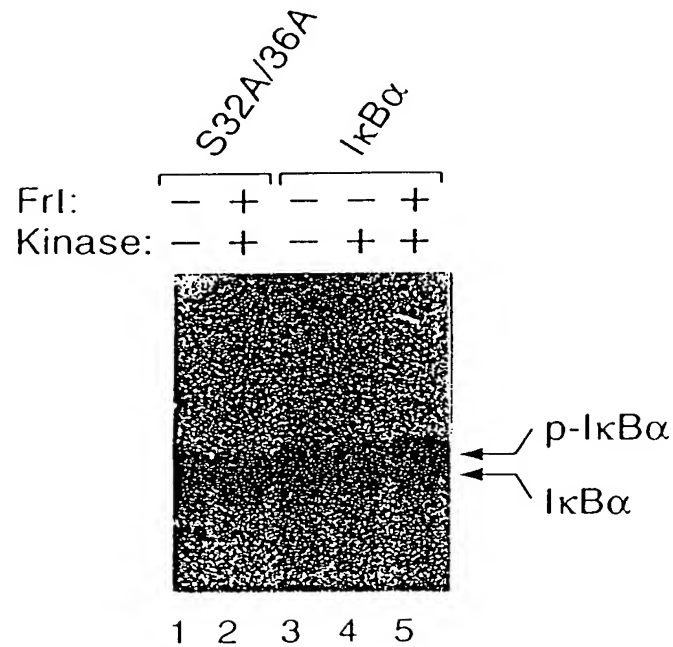


FIG.3A

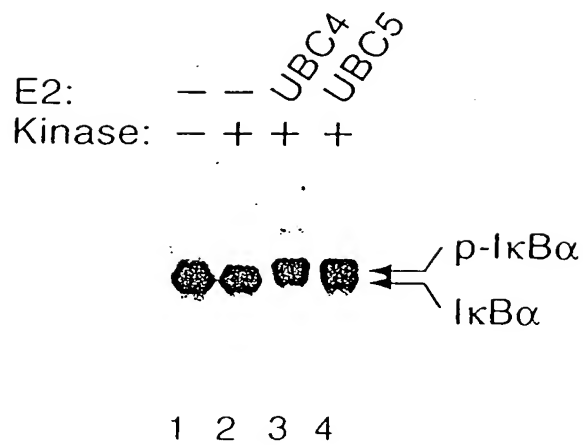


FIG.3B

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FIG.3C

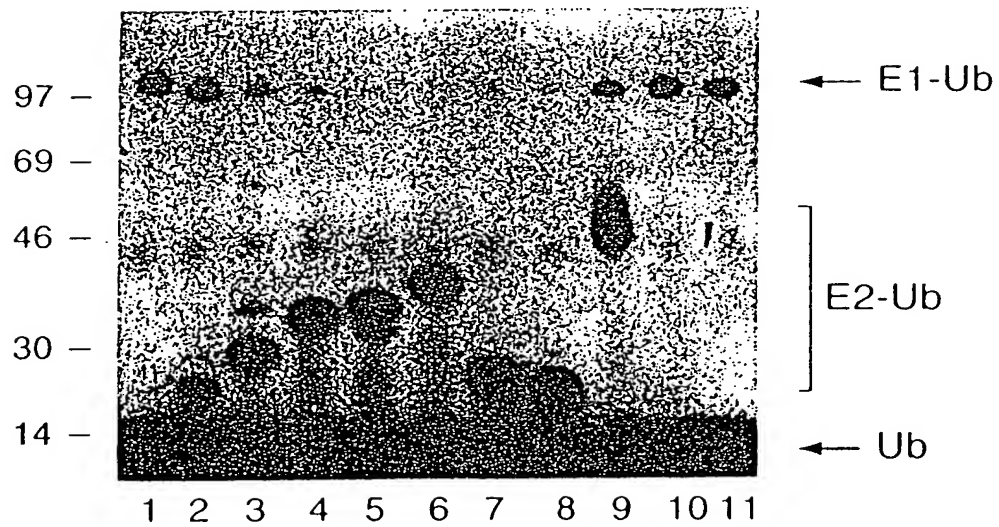
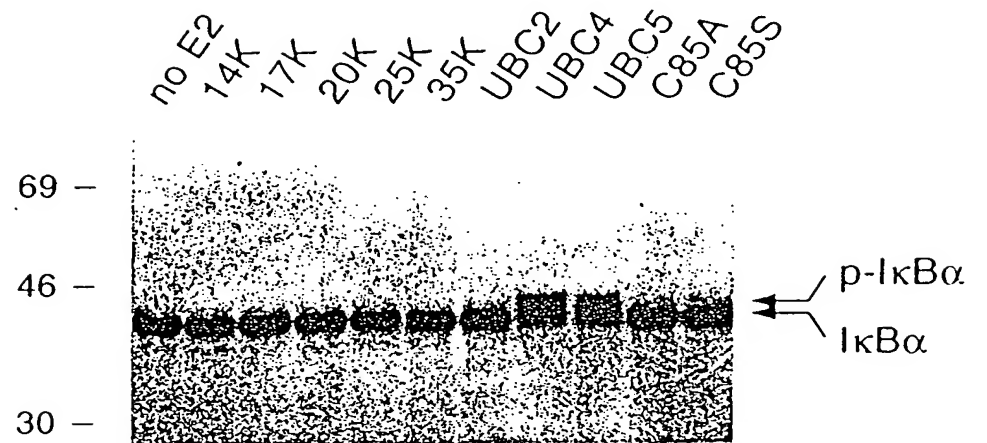


FIG.3D

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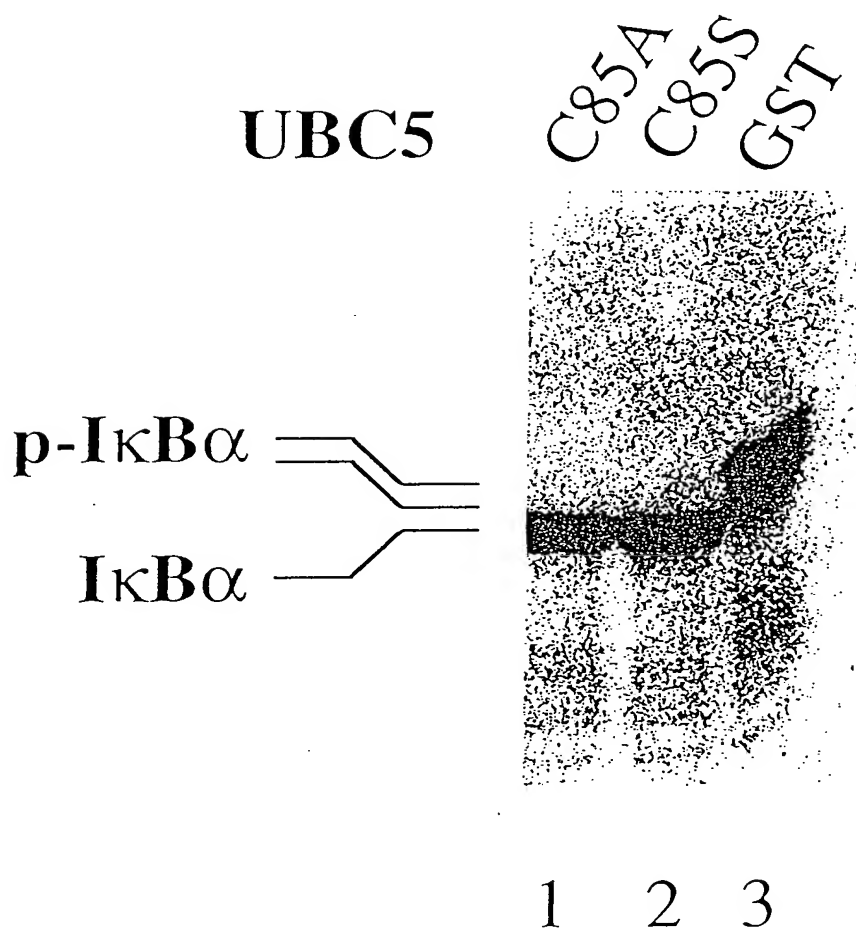


FIG.3E

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Ub( $\mu$ M): 0 0.1 0.3 1 3 10

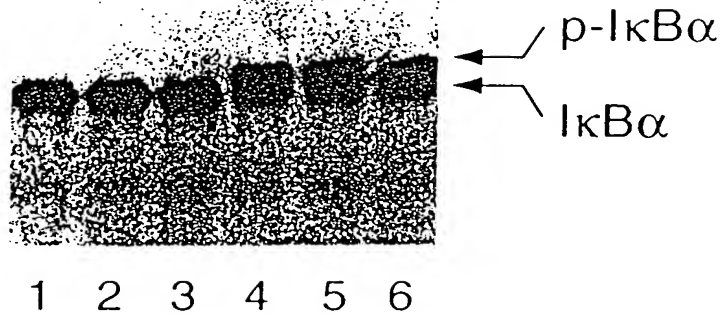


FIG.4A

Order of  
addition:

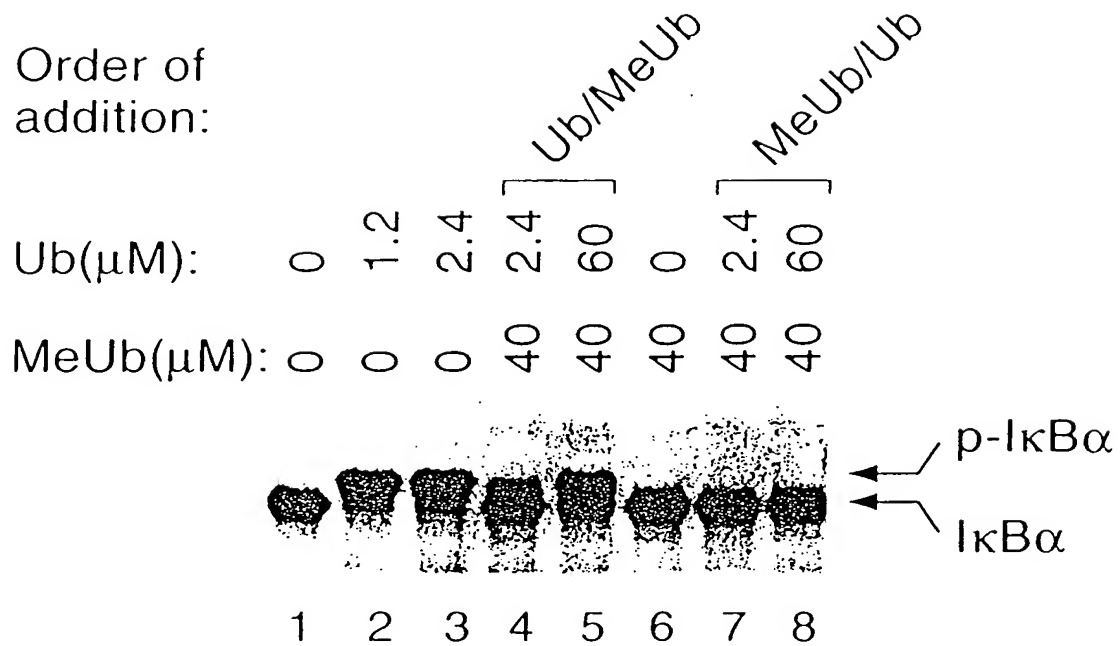


FIG.4B





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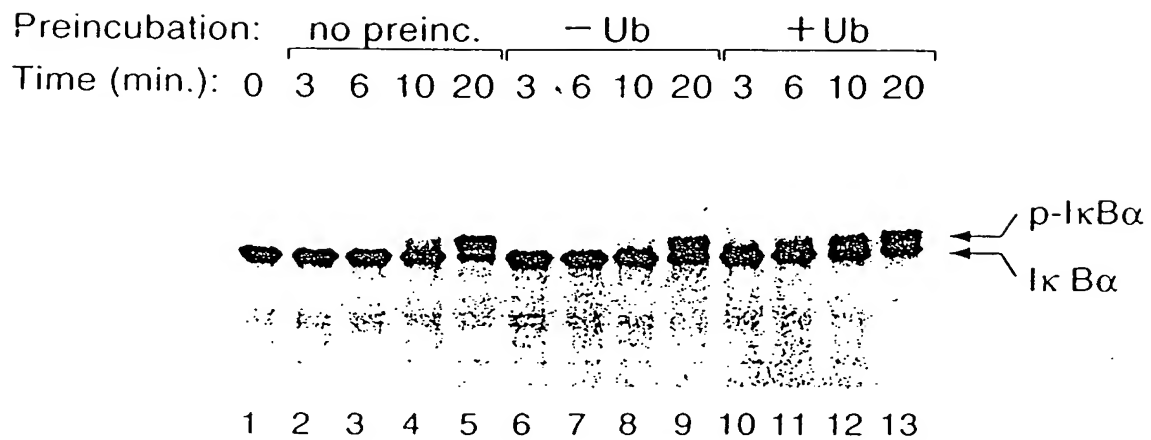


FIG.6A

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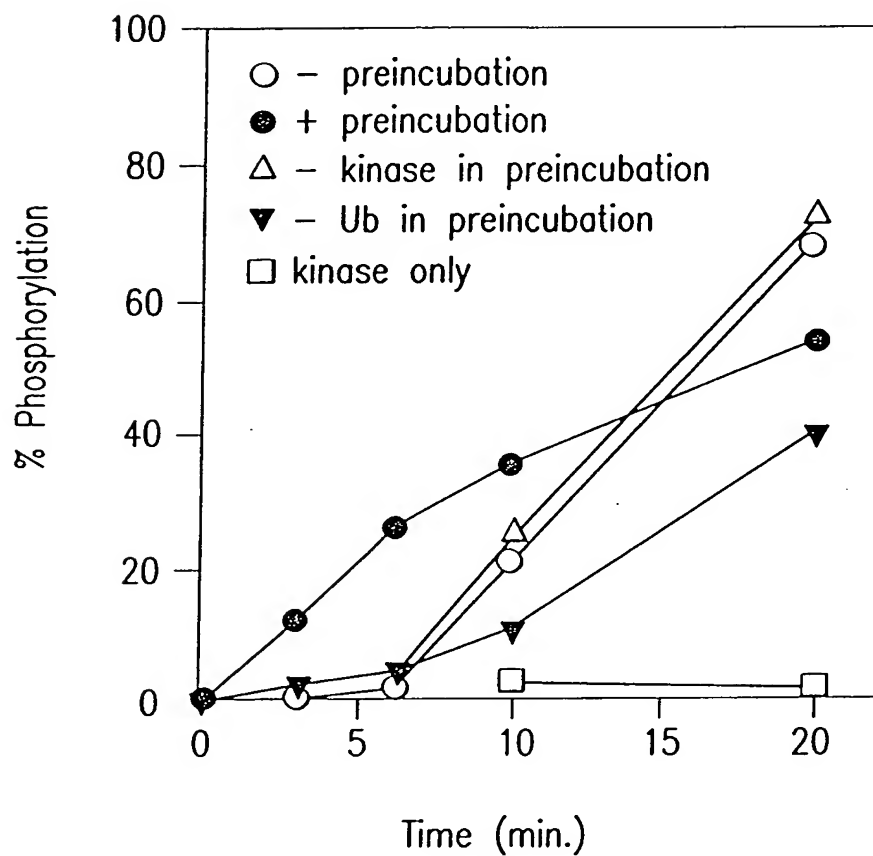


FIG. 6B

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FIG. 7A

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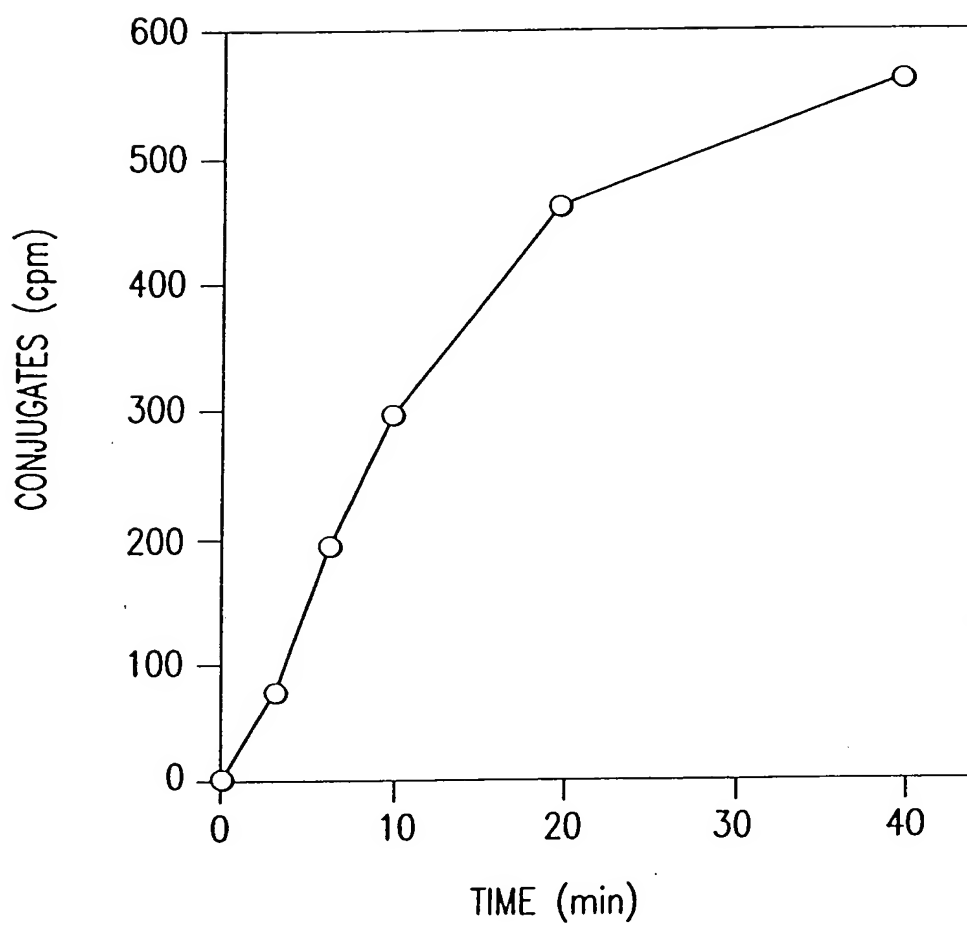


FIG. 7B

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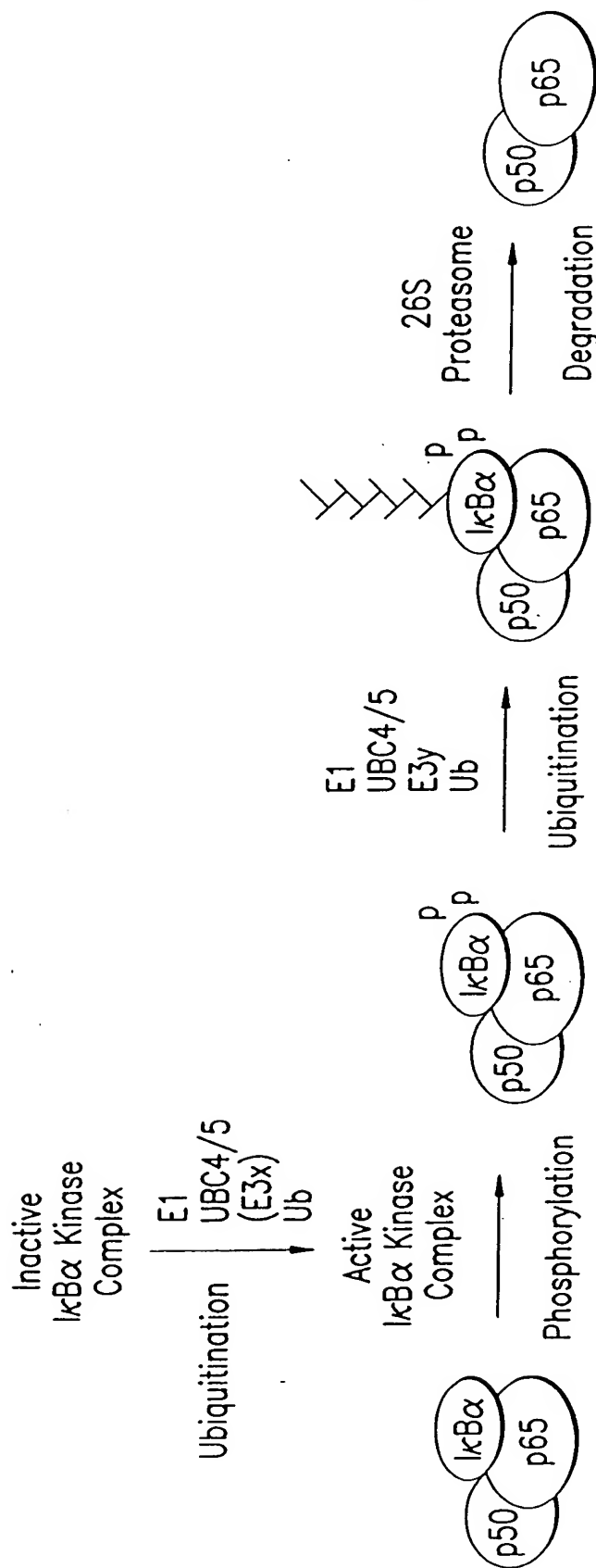


FIG. 8

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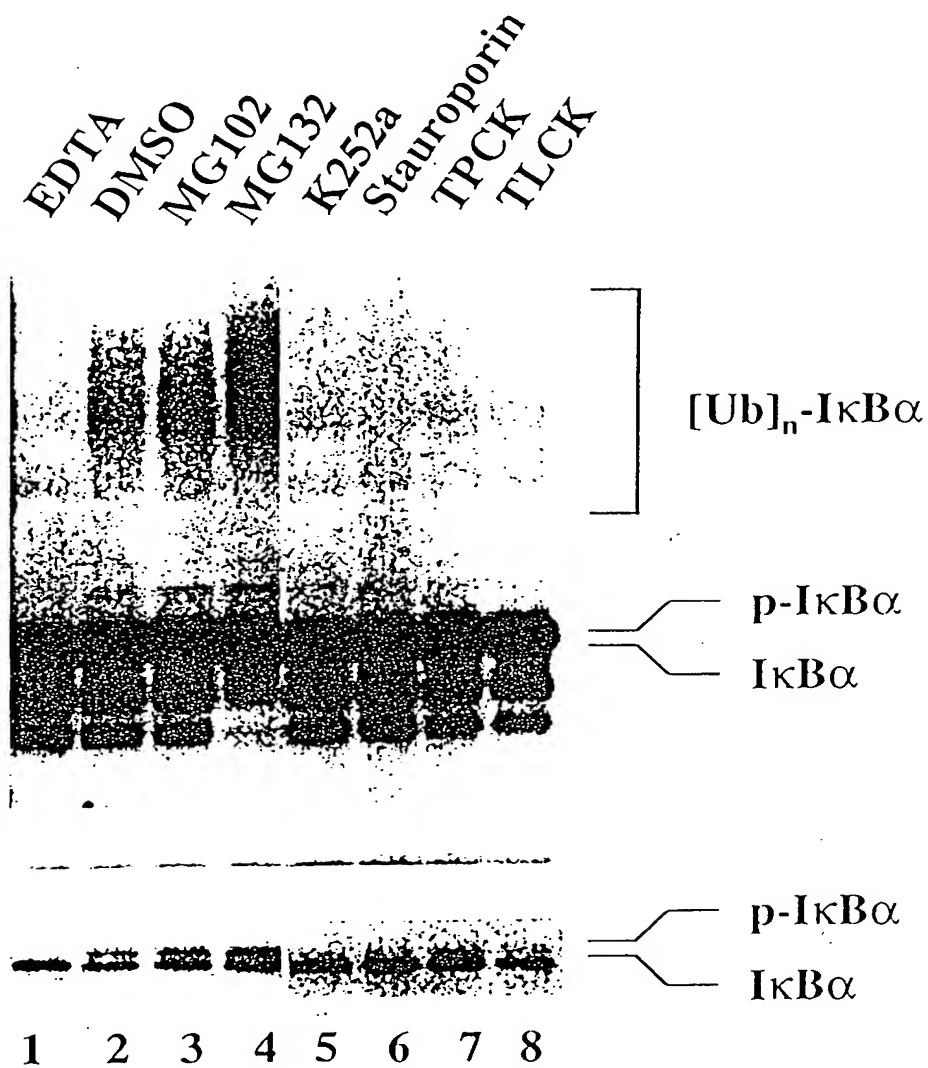


FIG.9

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FIG. 10A

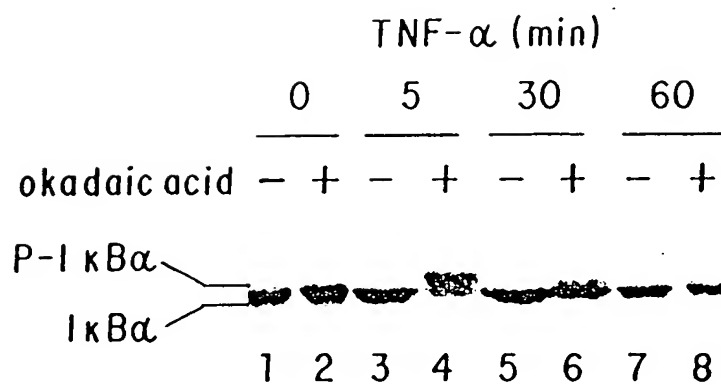
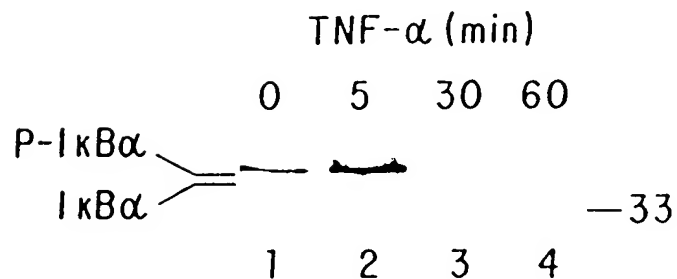


FIG. 10B



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FIG.10C

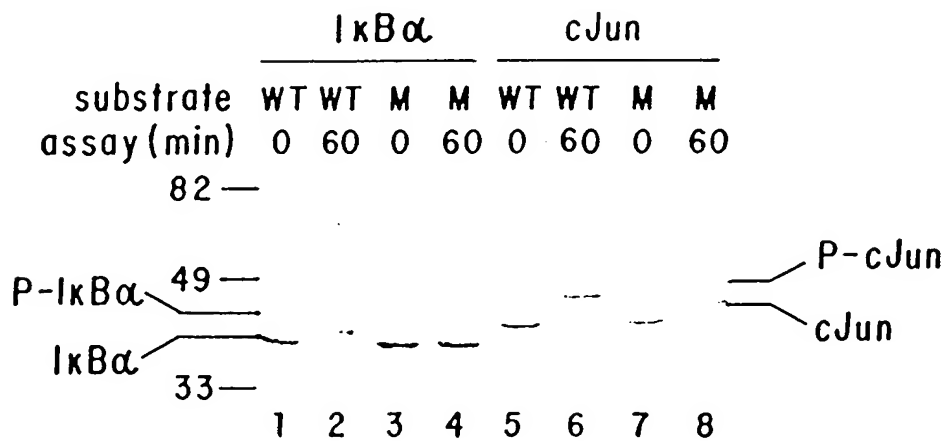
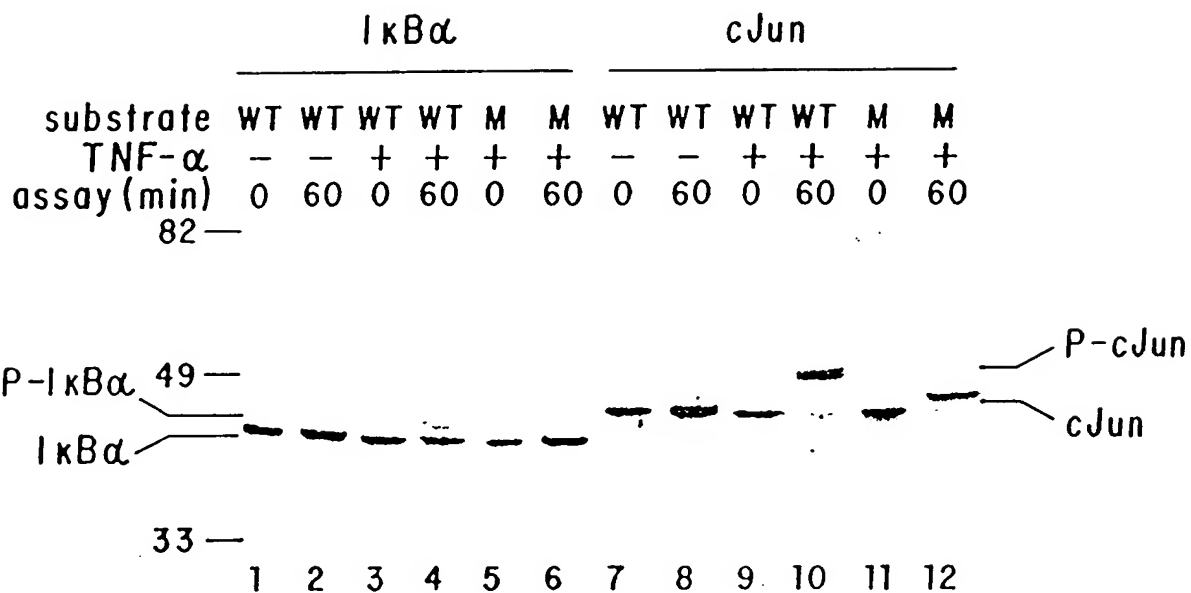


FIG.10D

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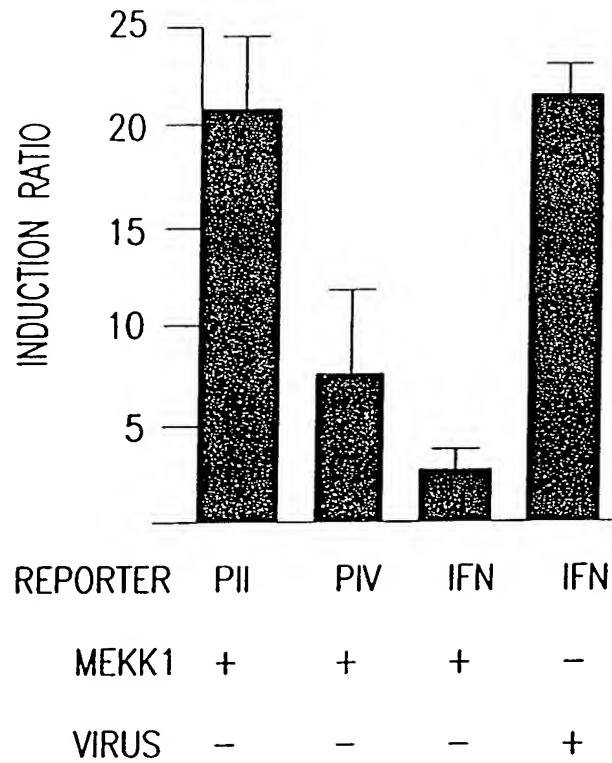


FIG. 11A

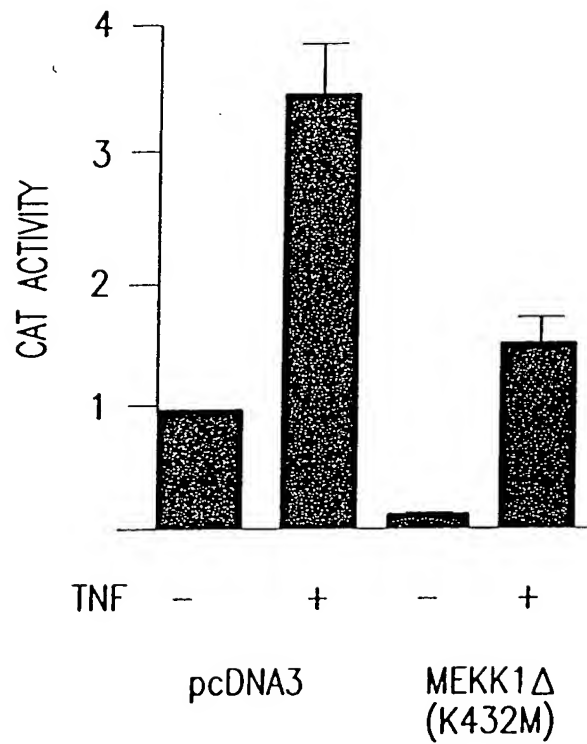


FIG. 11B

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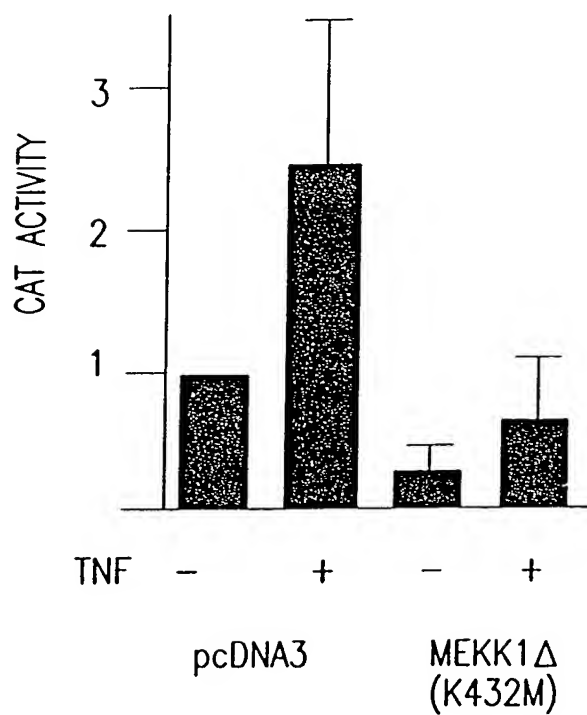


FIG. 11C

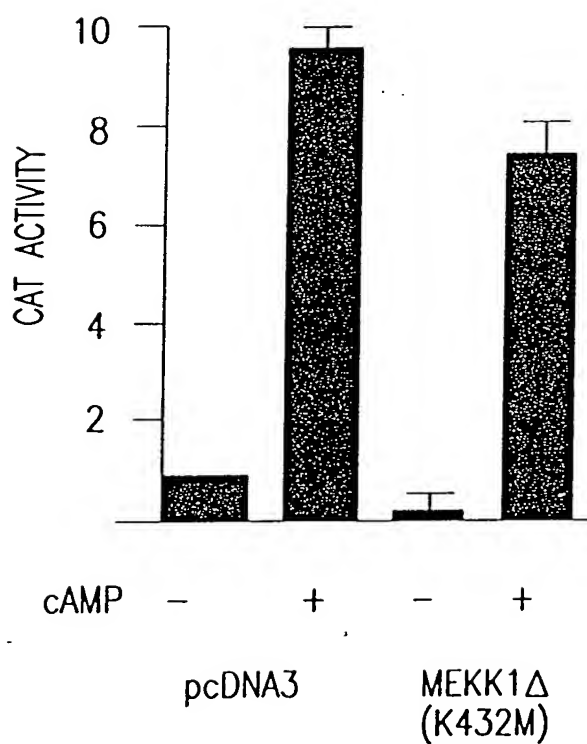


FIG. 11D

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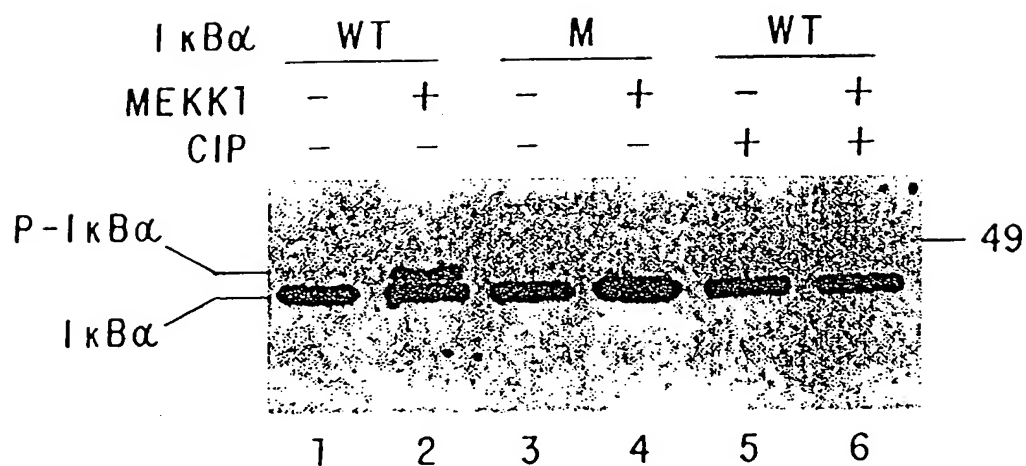


FIG.12

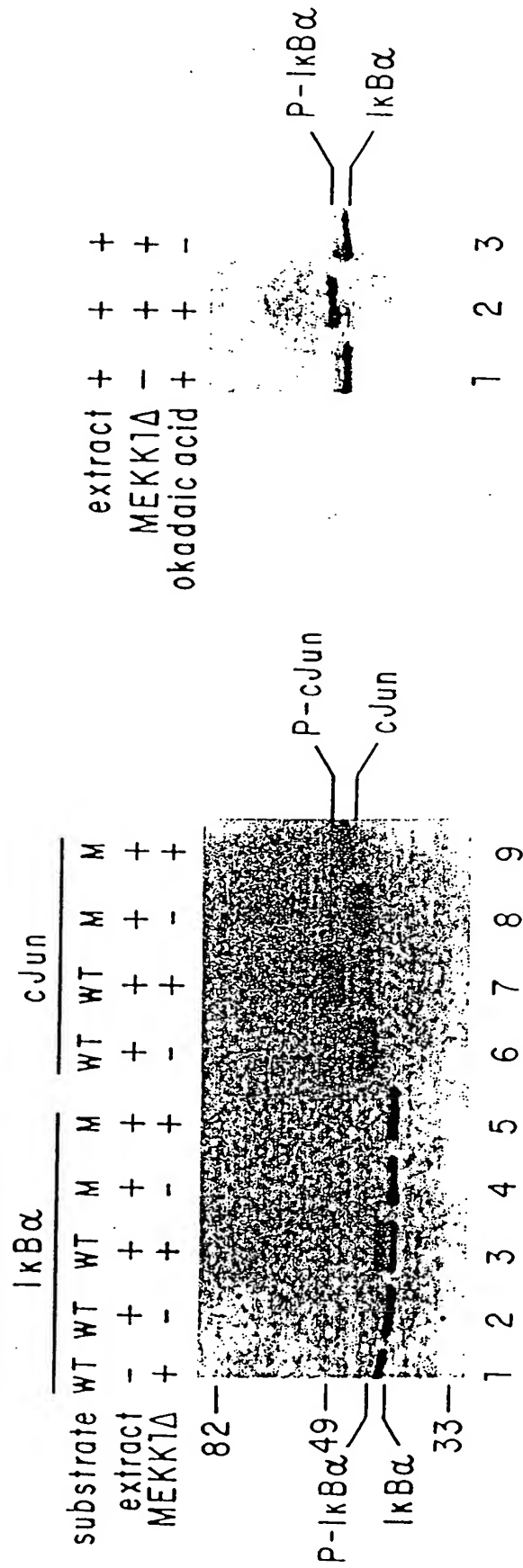


FIG. 13A

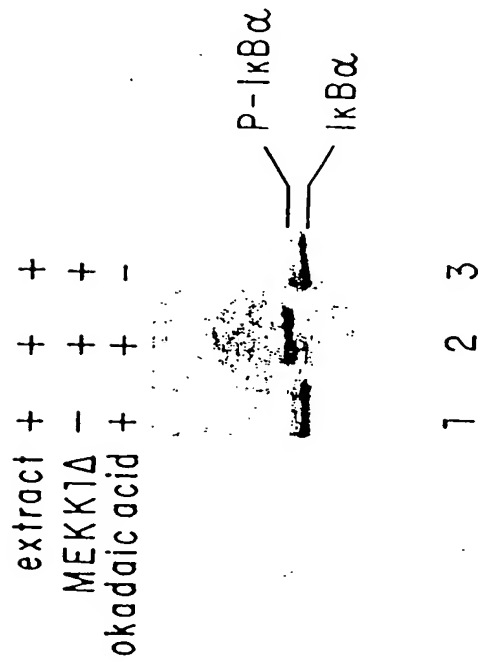


FIG. 13B

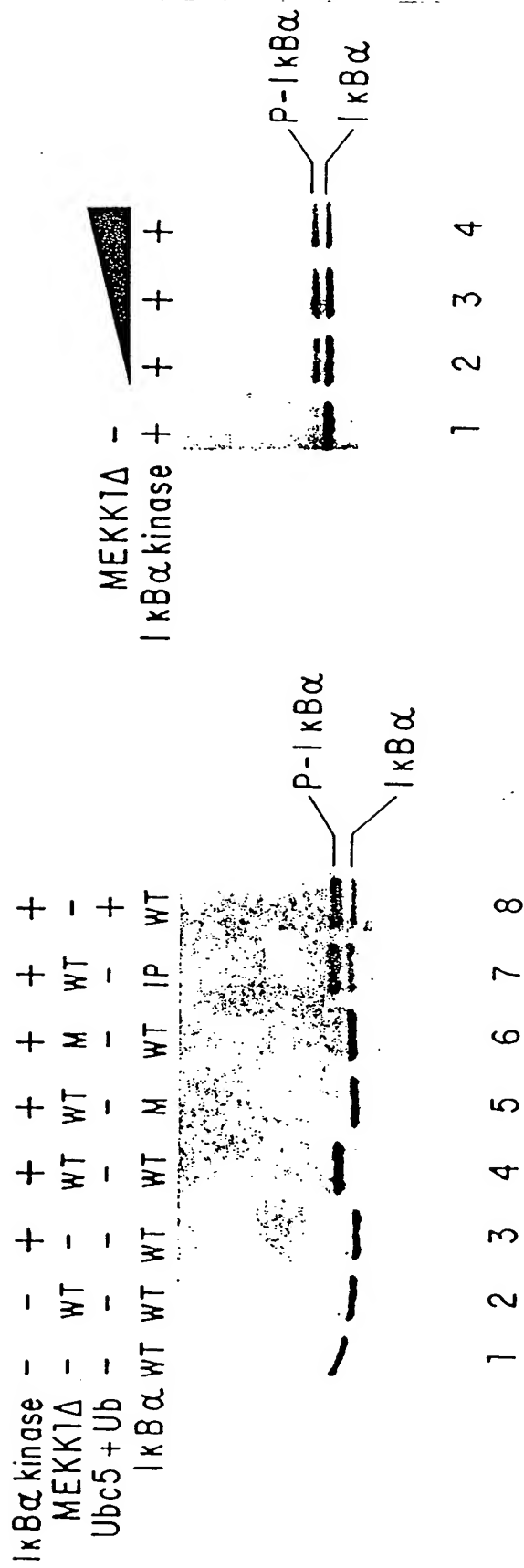


FIG. 13C

FIG. 13D

FIG. 14C

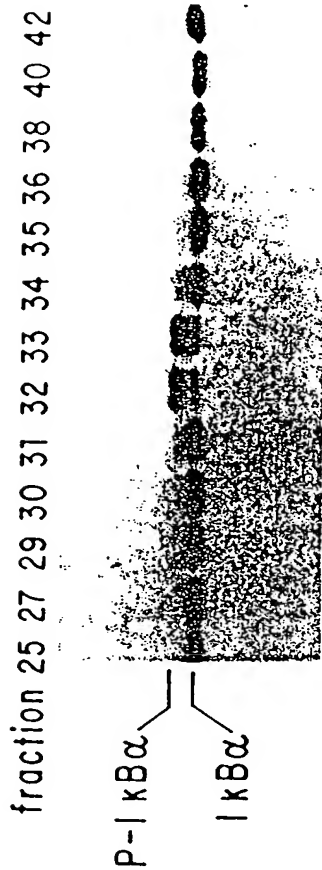


FIG. 14D



FIG. 14A

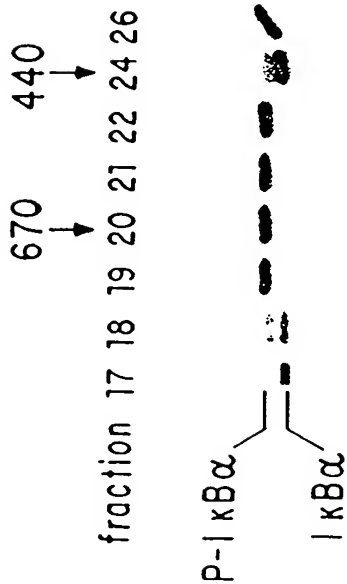


FIG. 14B



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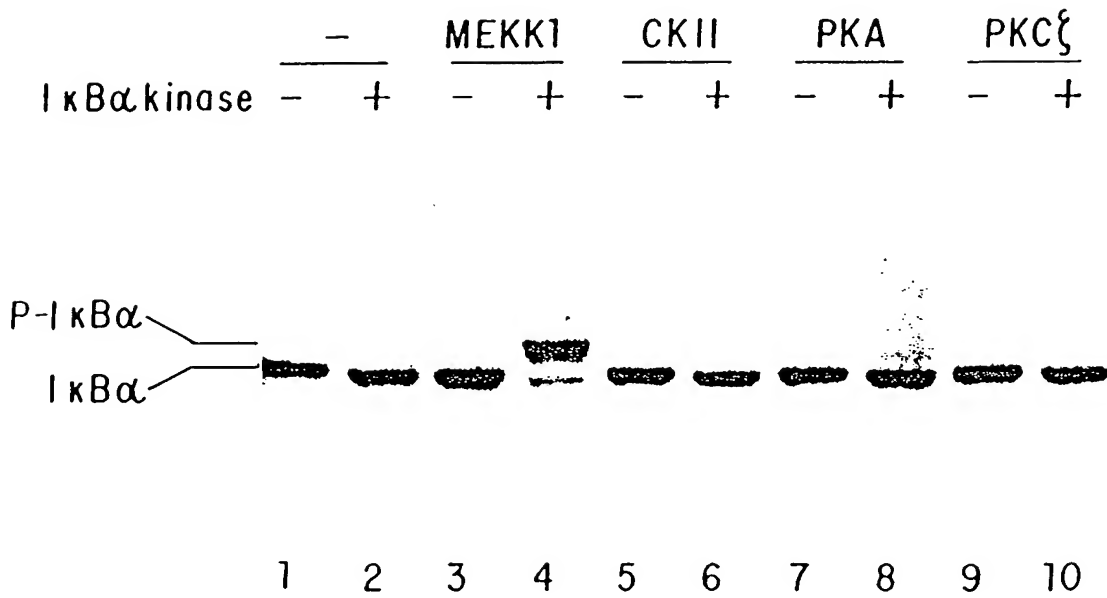


FIG.15A

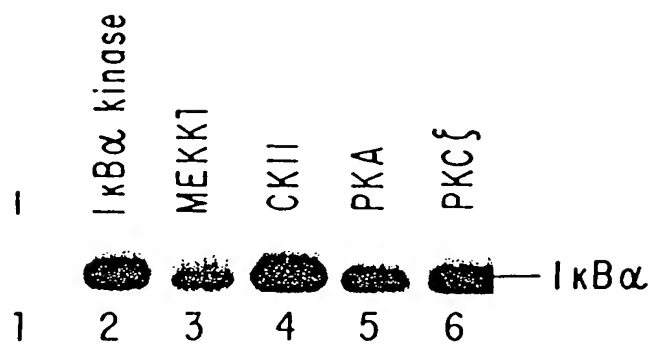


FIG.15B



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CIP	-	-	+	+
MEKK1 $\Delta$	+	-	+	-

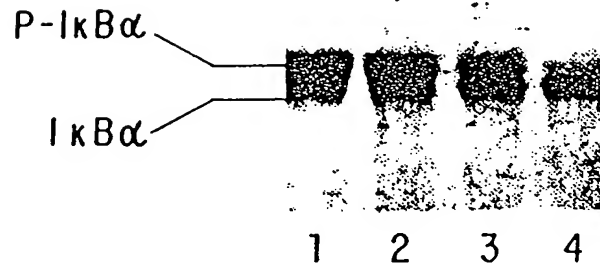


FIG.16A

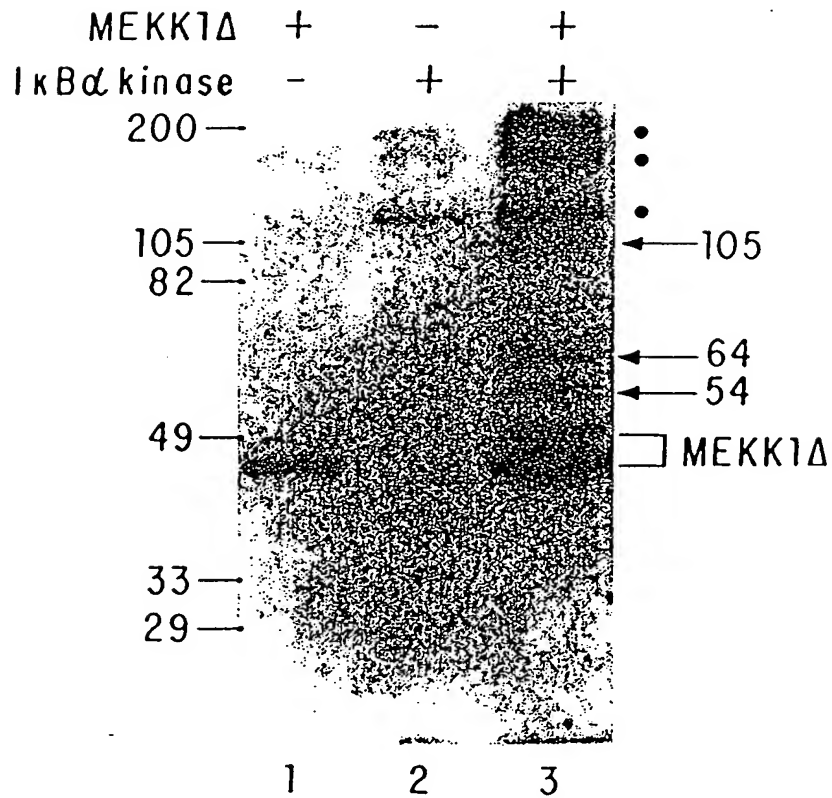


FIG.16B

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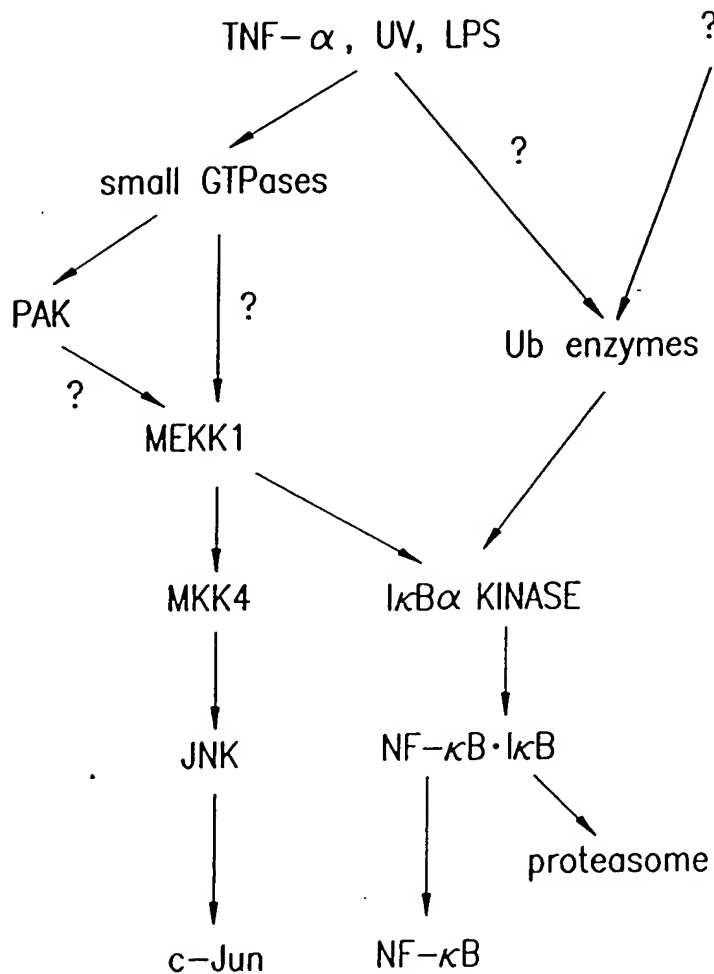


FIG. 17

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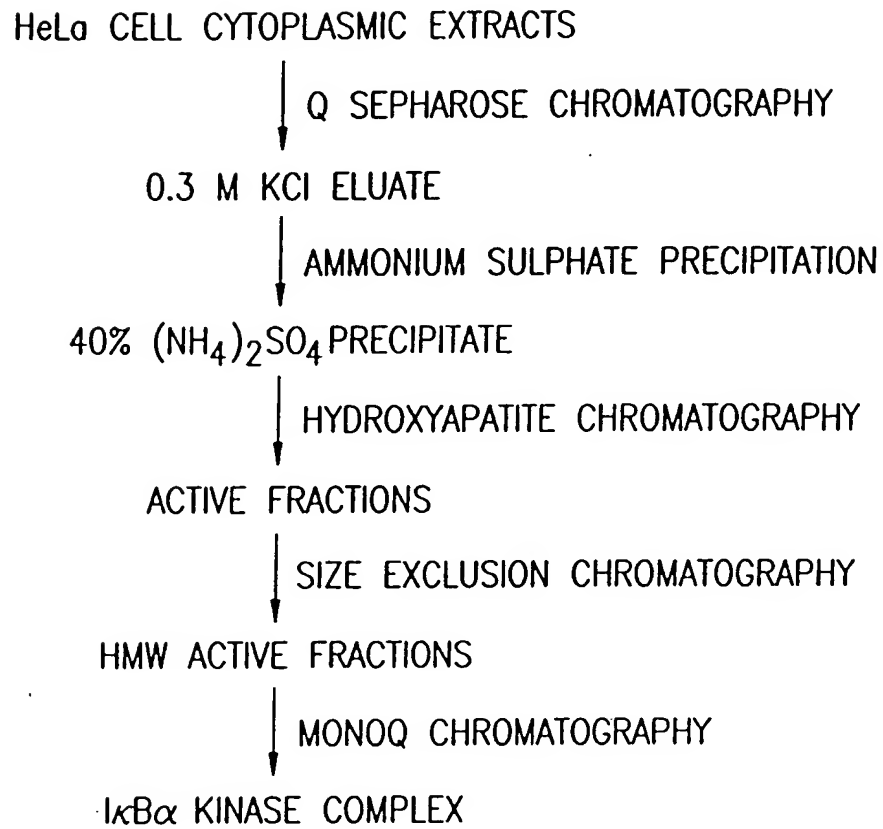


FIG. 18

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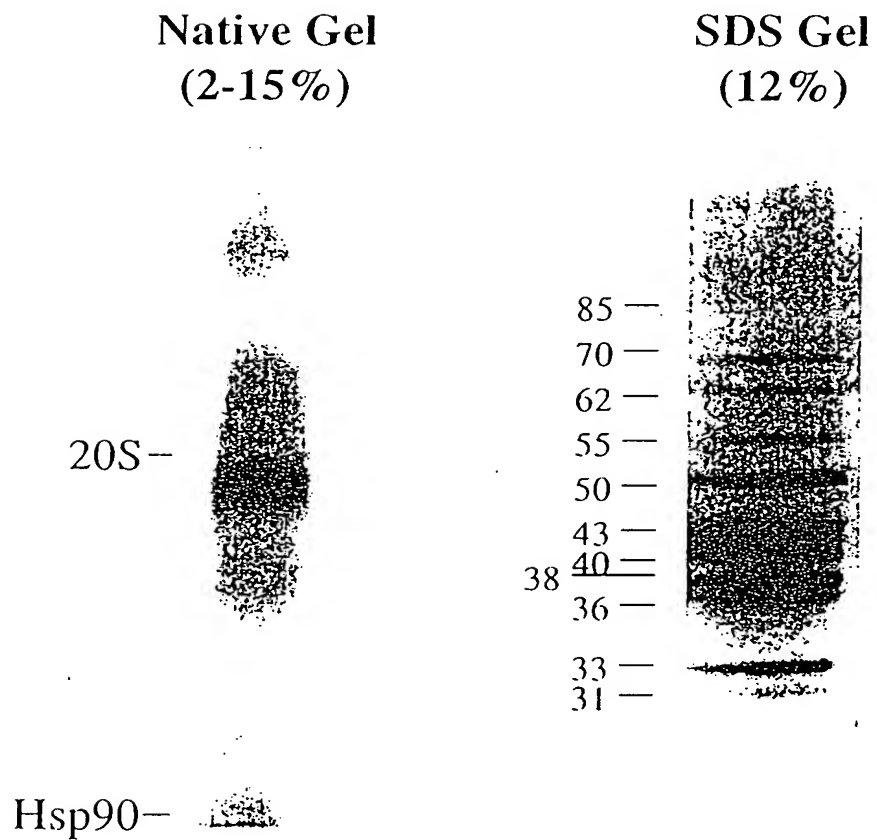


FIG.19A

FIG.19B

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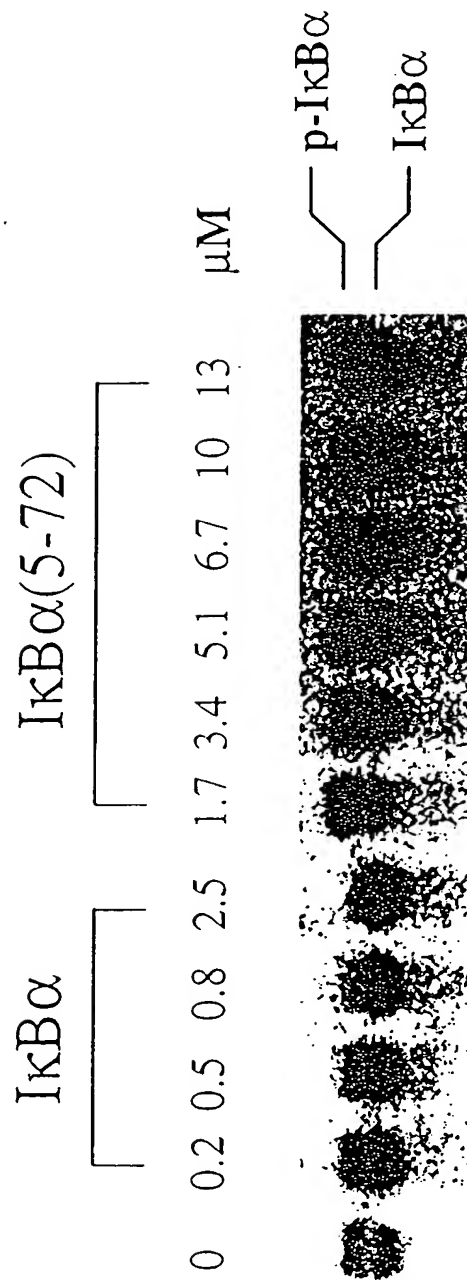


FIG.20

**Applicant:** Zhijian J. Chen  
**Title:** KINASE CAPABLE OF SITE-SPECIFIC  
PHOSPHORYLATION OF IKB-A  
**Attorney/Agent:** Tracy M. Sioussat  
**Docket No.:** MPI96-031CP1DV1CPACN2M

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A p50: pep1: [L/I] [Y] [V] [E] [L/I] [E] [R]  
B pep2: [L/I] [Q/K] [E] [V] [L/I] [E] [T] [L/I] [L/I] [S]  
[L/I] [E] [K\*]  
C pep3: [L/I] [F] [T] [T] [M] [E] [L/I] [M] [R]  
D p40: pep4: [T] [Y] [H] [A] [L\*] [S] [N] [L\*] [P] [K\*]

FIG.21

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A|

1 gggtgacgag tgggtggccga agcaggggga cagcaaggga cgctcaggcg gggaccatgg  
61 cggacggcgg ctcgagcg gctgacgggc gcatcgtcaa gatggagggtg gactacagcg  
121 ccacggtgga tcagcgccta cccgagtggtg cgaagtatgc caaggaagga agacttcaag  
181 aagtcattga aacccttctc tctctggaaa agcagactcg tactgcttcc gatatgggtat  
241 cgacatcccg tatcttagtt gcagtagtga agntgtgcta tgaggctaaa gaatgggatt  
301 tacttaatta aaaatattat tgctttttgt caaaaggcg gagtcaagtt aaaaacaagc  
361 tagttgacaa aaaatggatt naacagttgc tgnacttat tgttt

B|

1 ataccaagag gtaccaggaa gcattgcatt tgggttctca gctgctgcgg gagttgaaaa  
61 agatggacga caaagctctt ttggtggaag tacagctttt agaaagcaaa acataccatg  
121 ccctgagcaa cctgccgaaa gcccagagctg ccttaacttc ttctcgaacc acagcaaatg  
181 ccctctactg cccctaaat tgcaggccac cttggacatg cagtcgggta ttatccatgc  
241 agcagaagag aaggcttgaa actcgtactc atacttctat gaggcattta gggatgact  
301 catcgacagc ccaaggcatc aca

FIG.22

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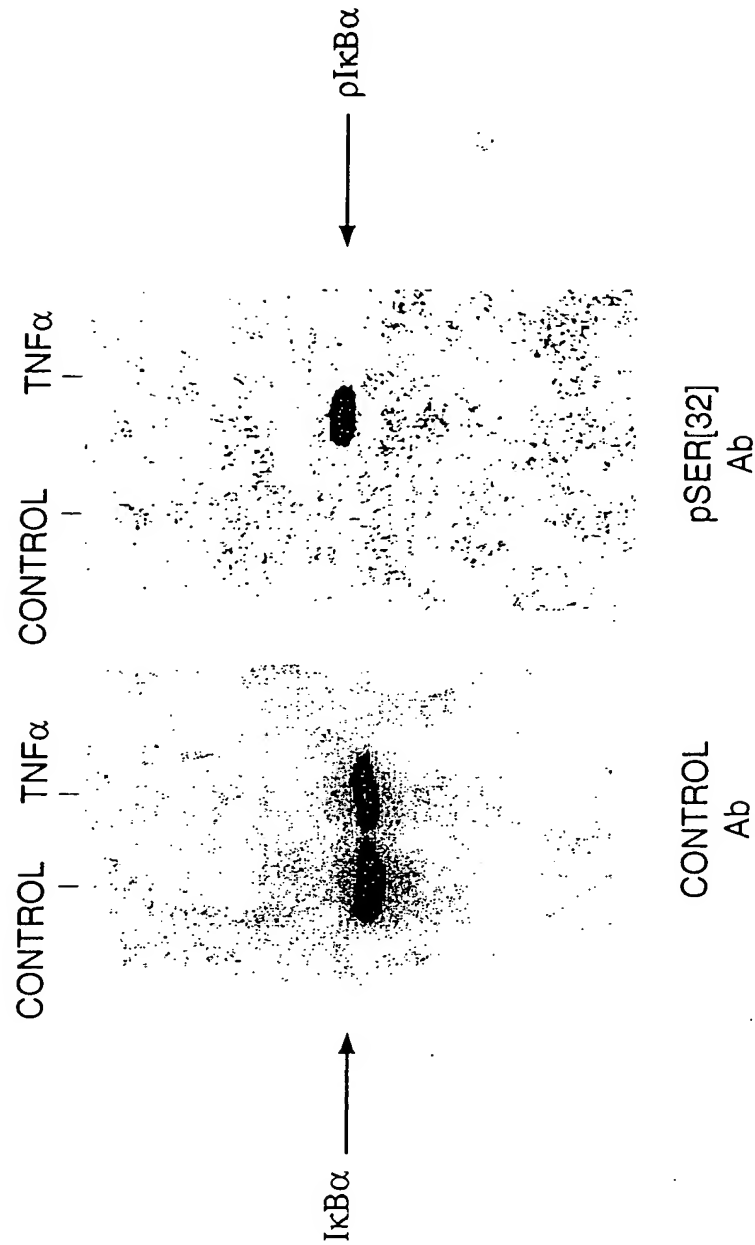


FIG. 23



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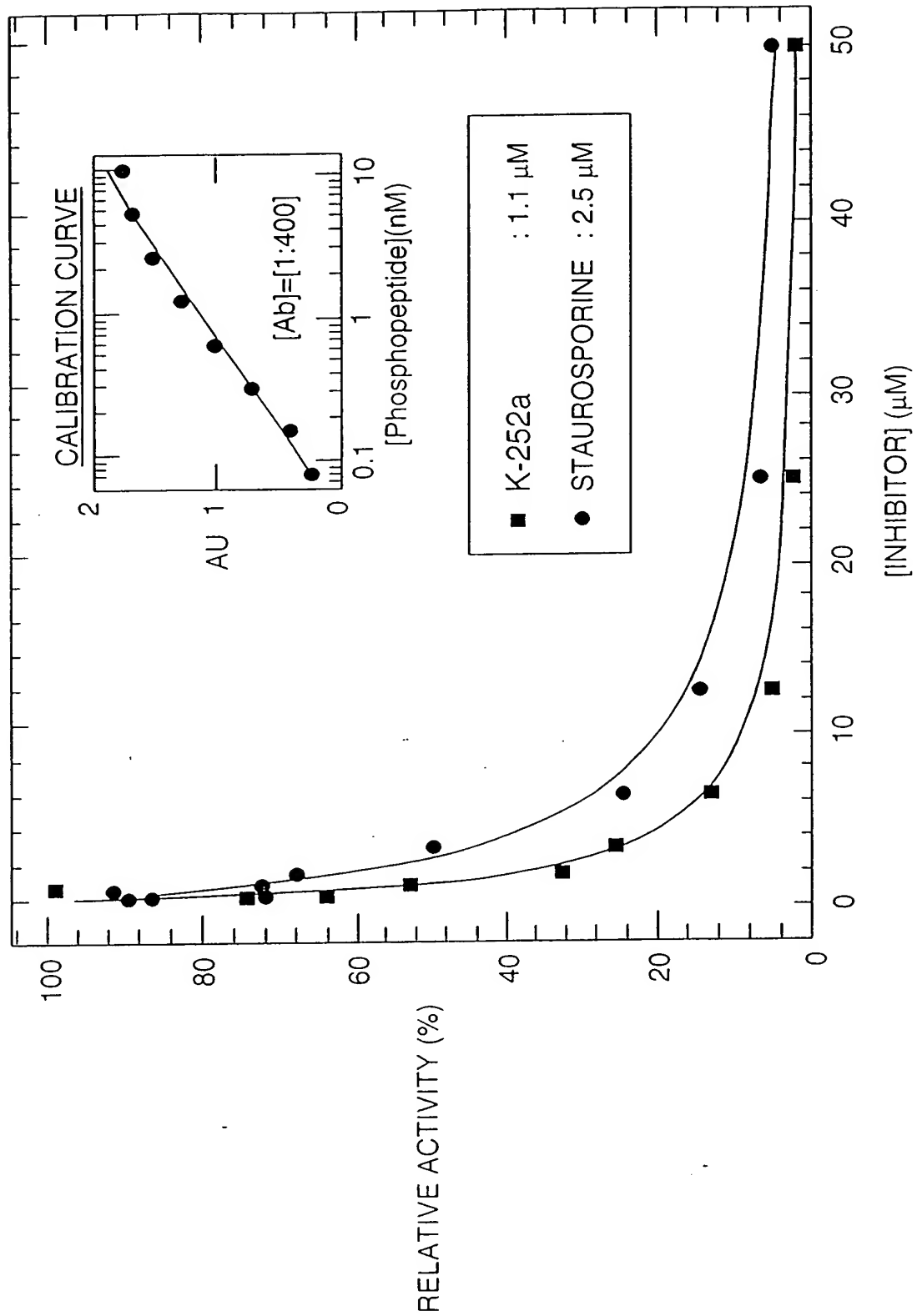


FIG. 24